DOCUMENT RESUME

ED 314 185 PS 018 506

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TITLE Program Quality and Licensure in Day Care Centers and Family Day Care Homes.
PUB DATE 89
NOTE 37p.
PUB TYPE Reports - Research/Technical (143)

EDRS PRICE MF01/PC02 Plus Postage.
DESCRIPTORS *Certification; Comparative Analysis; *Day Care Centers; Early Childhood Education; *Educational Quality; *Family Day Care; Observation; Rural Areas; State Surveys; Suburbs; Urban Areas
IDENTIFIERS *Pennsylvania; *Sponsors

ABSTRACT

Conducted state-wide in Pennsylvania, this study expands on several research studies of the quality of day care reported by Phillips (1987). Observations and evaluations were made of 149 randomly selected day care centers and family day care homes. The day care and family day care versions of the Child Development Program Evaluation Licensing Scale (CDPE), the Early Childhood Environmental Rating Scale (ECERS), and the Family Day Care Home Rating Scale (FDCRS) were used. Findings indicated a significant difference between not-for-profit and for-profit day care centers. Day care centers scored significantly higher than family day care homes. Program compliance scores, as measured by the CDPE, and program quality, as measured by the ECERS and FDCRS, showed a strong curvilinear relationship. Rural programs scored significantly higher than urban programs on program quality measures. Although not-for-profit day care programs appeared to be of higher quality than for-profit programs, investigation is needed to determine why this difference in quality does not extend to agency-sponsored homes. Another issue needing further investigation is the drop-off in quality that occurs when centers go from substantial to full compliance with state day care regulations. Over 30 references are cited. (RH)

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PROGRAM QUALITY AND LICENSURE IN DAY CARE CENTERS AND FAMILY DAY CARE HOMES

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ABSTRACT

This study is the latest in a series of third wave research studies on day care quality. The study was conducted statewide in Pennsylvania. Observations and evaluations were made of 149 randomly selected day care centers and family day care homes utilizing the Child Development Program Evaluation Licensing Scale--day care and family day care versions (CDPE) and the Early Childhood Environment Rating Scale (ECERS) and the Family Day Care Home Rating Scale (FDCRS). Results indicated a significant difference between nonprofit and profit day care centers; day care centers scored significantly higher (ECERS) than family day care homes (FDCRS); program compliance scores as measured by the CDPE and program quality as measured by the ECERS/FDCRS showed a strong curvilinear relationship; rural programs scored significantly higher than urban programs on the program quality measures. This study expands upon several third wave research studies as reported by Phillips (1987).

INTRODUCTION

Day care research has been characterized in terms of waves of research. The first wave of research (e.g., Bissell, 1973; Golden et al, 1978; Lazar, 1978; Weikart, 1972; Zigler, 1977) asked the question "Is child care good or bad?". The second wave of research (e.g., Rubenstein & Howes, 1979; Ruopp et al, 1979; Rutter, 1981; Vandall & Powers, 1983) asked the question "What are the effects of different kinds of child care?". This study is based upon several day care research studies (Clarke-Stewart, 1987a; Goelman & Pence, 1987; Howes, 1987; Howes & Olenick, 1986; Kontos & Fiene, 1987; Phillips, Scarr, & McCartney, 1987) that have been characterized as a third wave of research in child care in which the questions have become more complex (Clarke-Stewart, 1987b).

In a review of these third wave research studies (Phillips & Howes, 1987) program quality and program compliance of day care programs and other dimensions of regulatory compliance were described in global assessment terms. In one of those studies, Kontos and Fiene (1987) looked specifically at the relationship between licensing and program quality in day care centers. In a related study, Kontos and Fiene (1985) built in a controlling feature--the funding status of the day care programs (nonprofit or

profit status) which had a significant impact on the relative quality of programs evaluated. In both the Phillips, Scarr, and McCartney (1987) and the Kontos & Fiene (1987) studies, the Early Childhood Environment Rating Scale (ECERS) (Harms & Clifford, 1980) was used for the program quality assessments. Kontos & Fiene also used the Child Development Program Evaluation Scale (CDPE) (Fiene, Douglas, & Kroh, 1979), the licensing scale used in Pennsylvania.

This study expands on the Kontos & Fiene (1987) and Phillips, Scarr, and McCartney (1987) studies by expanding the sample size significantly and evaluates not only day care centers but family day care homes. In expanding to family day care homes this study replicates another third wave research study by Goelman & Pence (1987). This study expands upon several studies by Fiene (1981, 1983, 1985, 1987, 1988) in exploring licensing systems as quality assurance systems. Lastly, based on suggested research by Phillips (1987), urban, suburban, and rural variations were contained in this study as well.

This study had several hypotheses: 1) There would be no significant differences between nonprofit and profit centers; 2) There would be no significant differences between agency sponsored family day care homes and independent homes; 3) There would be no significant differences between day care centers and family day

care homes; 4) There would be a positive linear relationship between CDPE licensing scores and ECERS scores; 5) There would be no significant differences between urban, suburban, and rural day care centers and family day care homes.

The results of this study confirm hypothesis #2 but do not confirm hypotheses #1, 3, 4, and 5.

METHODOLOGY

Sample. Data were collected from 87 day care centers and 62 family day care homes located in eleven counties throughout Pennsylvania (Allegheny, Bucks, Butler, Delaware, Erie, Lehigh, Luzerne, Philadelphia, Washington, Westmoreland, and York). These counties provide over 50% of the day care services in the state of Pennsylvania. Day care centers and family day care homes were randomly selected from the Pennsylvania Day Care Licensing List and invited to participate. For those centers choosing not to participate, randomly selected "replacement" centers were invited to participate until the desired sample size was obtained. Sixty-four percent of the day care centers initially selected agreed to participate. A large percentage of family day care homes (72%) were no longer providing services. Of the 87 day care centers, 64% were profit (n = 56) and 36% were non-profit (n = 31); of the 62 family day care homes, 42% were agency sponsored (n = 26) and

58% were independent (n = 36). These percentages represent the statewide percentages for these respective sponsored providers. All the day care centers were licensed and the family day care homes were registered using the Pennsylvania day care regulations. Table 1 displays the number of day care centers and family day care homes by county.

Insert Table 1 About Here

Data collection. Data on both the ECERS and FDCRS were collected by 17 graduate and undergraduate students in the elementary education program at Pennsylvania State University at Harrisburg. Students went through an intensive two week training program in conducting observations and evaluations in day care programs. This training included classroom instruction as well as site observations at several day care centers and family day care homes in order to establish inter-rater reliability. In all cases inter-rater reliability was established at a .90 level or above. In order to maintain this high level of inter-rater reliability, training observations and data collections were done with teams of two observers at each day care center and family day care home

site. Data were collected during a two month period (May-June, 1989).

The CDPE data were collected by the state regional day care licensing staff and not by the student observers.

Instrumentation. The instruments used in this study were (a) the Early Childhood Environment Rating Scale (ECERS) for all day care centers, (b) the Family Day Care Rating Scale (FDCRS) for all family day care homes, and (c) the Child Development Program Evaluation scale (CDPE) for comparisons between program quality and level of compliance with state regulations.

The Early Childhood Environment Rating Scale is a measure of program quality and consists of seven scales: (1) Personal Care, (2) Furnishings/Display, (3) Language/Reasoning, (4) Fine/Gross Motor, (5) Creative Activities, (6) Social Development, and (7) Adults Needs. This instrument has been widely used in the early childhood field for several years for determining the quality of child care.

The Family Day Care Rating Scale is a measure of program quality and consists of six scales: (1) Space and Furnishings for Care and Learning, (2) Basic Care, (3) Language and Reasoning, (4) Learning Activities, (5) Social Development, and (6) Adult Needs. This instrument is relatively new and has not had the test of time. However, the instrument parallels the ECERS providing some

evidence of content validity. In addition, the reliabilities obtained in this research support its use (see Table 2).

The following ratings were used with the ECERS and FDCRS: poor = 1; minimal = 3; good = 5; and excellent = 7. All scores are the averages of the total raw scores divided by the number of items on that particular scale. These average scores were used for analyses rather than the raw scores so that comparisons could be made between the ECERS and FDCRS scores.

The Child Development Program Evaluation Scale is the licensing instrument used in Pennsylvania as the quality regulatory system. This instrument consists of seven scales: (1) Administration, (2) Environmental Safety, (3) Child Development Program, (4) Nutrition, (5) Social Services, (6) Health, and (7) Transportation. Ratings for the CDPE were either 1 = full compliance or 0 = non compliance with each regulatory item.

Definitions and examples of each scale of the above instruments can be found in Appendix A.

Table 2 contains the alpha internal consistency reliabilities for each scale on the ECERS and FDCRS. Alpha reliabilites of .70 or greater are considered acceptable for this type of measure (Gable, 1986; Nunnally, 1978). As can be seen in Table 2, the alpha reliabilities are acceptable on all scales of the ECERS and all but one on the FDCRS. The Social Developement scale on the

FDCRS had an alpha reliablility of .48.

Insert Table 2 About Here

On a selected sample, the CDPE scores were compared to the ECERS scores. This analysis was completed to establish the validity of the ECERS scores. There was a curvilinear relationship between the ECERS and the CDPE-CL--these results are reported in the RESULTS section of this paper.

Both the ECERS and the CDPE scales have been used in several day care and early childhood studies over the past ten years. The ECERS is one of the most reliable program quality instruments while the CDPE is one of the most reliable program compliance (i.e., licensing) instruments available (see Fiene, 1988b for a detailed listing of available instruments for assessing and evaluating early childhood and child care programs).

RESULTS

This section will be divided into the following sub-sections: 1) ECERS data comparing nonprofit and profit day care centers; 2) FDCRS data comparing agency sponsored and independent family day care homes; 3) ECERS and FDCRS data comparisons; 4) ECERS and CDPE

data comparisons; and 5) ECERS and FDCRS data comparisons for urban, suburban, and rural day care programs.

1) Early childhood environment rating scale (ECERS)--nonprofit and profit day care centers.

A critical issue was to determine the relative levels of quality in nonprofit and profit day care centers. Studies (Fiene, 1983; Kontos & Fiene, 1987) that have been completed had somewhat conflicting findings but generally the results favored the nonprofit programs in that they had scored higher on both program quality (ECERS) and program compliance with state day care regulations (CDPE) instruments in the past. In this study the results were significantly in favor of the nonprofit providers. This study confirmed these previous studies as nonprofit centers were observed to be significantly higher in quality. On six of the seven scales the nonprofit day care centers scored significantly higher than profit day care centers (see Table 3). There was no significant difference on the Basic Care scale.

Insert Table 3 About Here

This is a clear indication that the nonprofit day care centers are of a significantly higher quality than the profit day care centers in the sample drawn in Pennsylvania. Even though no significant difference was found on the Basic Care scale, the trend of the means was still in favor of the non profit centers. (see Table 3)

2) Family day care rating scale (FDCRS)--agency sponsored and independent family day care homes data comparisons.

This series of analyses dealt with family day care homes. The purpose of these analyses was to determine the levels of quality between agency sponsored and independent family day care homes. Results in the past (Fiene, 1985) have had conflicting quality scores. This study supports the finding that there are no significant differences between agency and independent family day care homes (except for the Space scale) although the trend appears to favor independent family day care homes (see Table 4).

Insert Table 4 About Here

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3) Early childhood environment rating scale (ECERS) and Family day care rating scale (FDCRS) data comparisons.

These analyses basically supported a study conducted in Canada by Goelman and Pence (1987) although there were some differences in several of the scale means. In both studies, the day care centers scored significantly higher than family day care homes (see Table 5). However, in this study, the Social Development scale was higher in the family day care homes, while in the Goelman and Pence study, the Adult Needs scale was slightly higher in the family day care homes.

The total FDCRS and ECERS score for the Fiene and Melnick study were 3.80 (FDCRS) and 4.38 (ECERS); the Goelman and Pence study means were 3.35 (FDCRS) and 4.62 (ECERS).

Insert Table 5 About Here

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4) Early childhood environment rating scale (ECERS) and Child development program evaluation scale (CDPE) data comparisons.

This series of analyses built in for validity purposes are potentially the most significant in comparing ECERS data with CDPE licensing data. As has been reported in several earlier studies (Fiene, 1985, 1986, 1987), an interesting curvilinear relationship between program quality and program compliance appears (see Table 6). This result has been confirmed in several studies (Fiene, 1988) but this study is the largest and most comprehensive of this type.

Insert Table 6 About Here

Also, lending additional support to this phenonmenon are the results from the regional day care offices. Western region day care office of the Pennsylvania Department of Public Welfare (PA D.P.W.) emphasizes full compliance more than the other regional offices while the Northeast region day care office (PA D.P.W.)

emphasizes substantial but not full compliance (see Table 7). As can be seen in Table 7, the quality ratings on each scale for the Northeast Region day care office (substantial compliance) are consistently higher than Western Region (full compliance).

Insert Table 7 About Here

Results were significant on all the scales with Northeast Region having the highest scores followed by Western Region and finally by Southeast and Central Regions. The only exceptions were on the Social Development and Adult Needs Scales where trends were indicated but they did not reach statistical significance.

5) Urban, suburban, and rural day care program comparisons on the ECERS and FDCRS.

With the exception of the Adult Needs scale, all the other scale means were significantly different in favor of the more rural day care programs. Even the Adult Needs scale, albeit not significant, shows a clear trend in favor of the more rural day care programs. This analysis is in response to a research

question raised by Phillips (1987) in QUALITY IN CHILD CARE: WHAT DOES RESEARCH TELL US? in which the author suggests this type of study for further exploration.

Table 8 depicts clearly that rural day care programs score significantly higher than urban day care programs on both the ECERS and FDCRS (the only exception is on the Adult Needs scale).

Insert Table 8 About Here

DISCUSSION AND CONCLUSION

Interesting aspects of this study include that it is a multi-site day care center and family day care home study which has been proposed by Phillips (1987) as a major study design factor in conducting child care research. A major day care policy question regarding the relationship of program compliance and program quality appears to be of a curvilinear relationship rather than linear. This was a caution noted by Clarke-Stewart (1987) regarding certain regulatory requirements. This study is an expansion of a previous research study that was used as a day care policy model (Kontos & Fiene, 1987). It is possibly in this last area that this research study makes its most significant advance

in early childhood/day care policy research.

This study significantly impacts day care policy on several fronts. Day care policy that attempts to increase parental choice without searching for why nonprofit subsidized day care quality is significantly higher will be myopic in any public policy formulation.

Probably the most significant result is the relationship between program compliance (CDPE) and program quality (ECERS). This is an area where the data do not support day care licensing policy. The present position of full compliance with state day care regulations does not appear to be sound policy based upon the results in this study and previous studies (see Fiene, 1985, 1986, 1987; Kontos & Fiene, 1987). States need to reconsider their position regarding this policy decision and to entertain a proposal made by Fiene (1986, 1988a,b) and which has appeared in Taylor (1989) that deals with indicator licensing systems. This proposal introduced indicator licensing systems that incorporate only key predictors of licensing compliance with program quality indicators. Indicator licensing systems are very effective and efficient day care monitoring systems.

The FDCRS analyses are interesting in that they did not follow the same pattern as the nonprofit and profit day care centers. Agency sponsored family day care homes did not score

significantly higher on the FDCRS than the independent family day care homes. Previous studies (Fiene, 1985, 1988b) had always indicated that agency sponsored family day care homes scored significantly higher than independent family day care homes.

The analyses comparing day care center programs with family day care programs support the Goelman and Pence (1987) research in Canada in which day care centers scored significantly higher than family day care homes. The only exceptions in this study were the Social Development and the Adult Needs scales.

The urban and rural day care program analyses pointed out some interesting findings although the impact of policy formulation and direction based on these results is somewhat doubtful. The creation of day care programs are driven by market forces of supply and demand by parents and not geographic distribution.

The reliability scores (Cronbach alpha) for both the ECERS and FDCRS are very encouraging, and the positive curvilinear relationship between the ECERS and CDPE indicates that a potentially effective and efficient day care monitorng system that uses the CDPE-indicator system and the ECERS in tandem is a viable day care policy option (see Taylor, 1989 & Fiene, 1986 for explanations of this program compliance and program quality day care policy model).

This study helps to clear up and also add to the confusion in the day care research literature. Nonprofit day care programs appear to be of a higher quality but why this doesn't translate to agency sponsored homes needs to be investigated. Day care centers are on the average of a higher quality than family day care homes--this is not totally unexpected. Another issue needing further investigation is why there is a drop-off in quality when centers go from "substantial" to "full" compliance with state day care regulations. This last issue is a troublesome one because it is diametrically opposed to state day care licensing policy in most states and has tremendous implications if Federal regulations are promulgated with the Act for Better Child Care (i.e., Will full compliance with regulations be a Federal policy?).

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APPENDIX A

Early Childhood Environmental Rating Scale

The ECERS consists of seven scales: Personal care routines of children: all routines associated with the comfort, health, and well-being of the children: for example, diapering, rest, and meals. Furnishings and display for children: making available, taking care of, arranging, and using regularly with children the furniture, storage shelves, and display space necessary to provide personal care and an educational program. Language-reasoning experiences: use of materials, activities and teaching interactions to help children learn to communicate in words and to use relationships basic to thought, such as size relationships, cause and effect, steps in a sequence, and time relationships (Harms & Clifford, 1980).

Fine and gross motor activities: fine motor activities exercise the fine or small muscles, such as the muscles of the hand used in drawing, cutting with scissors, or picking up a small object. Since the coordination of the eye and the hand are usually needed for fine motor work, these activities are sometimes called perceptual-fine motor activities. Gross motor activities exercise the gross or larger muscles, such as the muscles of the legs used

in climbing and running or the muscles of the arms used in swinging (Harms & Clifford, 1980).

Creative activities: activities and materials, such as those used in art, block building, and dramatic play, are flexible, open ended, do not have one right answer, and allow for a wide variety of constructive uses. Social development: guiding the children's development of a good image of themselves and others and helping them to establish interaction skills. Adult needs: providing space and equipment for the key adults in the early childhood setting--the teachers and parents (Harms & Clifford, 1980).

Family Day Care Rating Scale

The FDCRS consists of six scales: (1) space and furnishings for care and learning scale-- furnishings for routine and learning, furnishings for relaxation and comfort, child-related display, indoor space arrangement, active physical play and space to be alone; (2) Basic care scale--arriving/leaving, meals/snacks, nap/rest, diapering/toileting, personal grooming, health, and safety; (3) Language and reasoning scale--informal use of language, helping children understand language, helping children use language, and helping children to reason; (4) Learning activities scale--eye-hand coordination, art, music, and movement, sand and water play, dramatic play, blocks, use of T.V., schedule of daily activities, supervision of play, and indoors and

outdoors; (5) Social development scale--tone, discipline, and cultural awareness; and (6) Adult needs scale--relationship with parents, balancing personal and caregiving responsibilities, and opportunities for professional growth (Harms & Clifford, 1989).

Child Development Program Evaluation Scale

The Child Development Program Evaluation Scale (CDPE) is the licensing instrument used in Pennsylvania as the quality regulatory system. There are seven scales in the CDPE: administration (adult child ratio, records management), environmental safety (hazard free environment), child development program (curriculum, assessments), nutrition (menus, feeding schedules), social services (intake, parents), health (immunizations, health and child health appraisals), and transportation.

The CDPE is an instrument based program monitoring system and has the following characteristics: ensures equitable, enforceable monitoring of day care to meet desired level of child health and safety; ensures that day care promotes child development; provides for efficient and cost effective funding and monitoring procedures; and permits sound policy decision making (Aronson & Fiene, 1978; Fiene, Douglas, & Kroh, 1979; Fiene & Nixon, 1981).

Table 1

Number of Day Care Programs in Specific County Locations

County	Day Care Centers	Family Day Care Homes	Total
Allegheny	23	14	37
Bucks	9	1	10
Butler	1	4	5
Delaware	9	3	12
Erie	3	5	8
Lehigh	5	7	12
Luzerne	5	3	8
Philadelphia	20	13	33
Washington	2	1	3
Westmoreland	6	6	12
York	4	5	9
Totals	87	62	149

Table 2

Alpha Internal Consistency Reliabilities for Each Scale on the ECERS and FDCRS[1]

Scales	ECERS	FDCRS
Basic care	.69	.85
Furnishings	.77	.88
Language	.87	.93
Learning	—	.87
Social	.79	.48
Motor	.83	—
Creative	.83	—
Adult	.77	.68

[1] The Learning scale on the FDCRS parallels the combination of the Motor and Creative scales on the ECERS.

Table 3

Comparison of Nonprofit and Profit Day Care Centers on the ECERS

Scales	Profit DCC	Nonprofit DCC	t	p<
Basic care	4.48	4.63	.67	n.s.
Furnishings	4.06	4.54	2.00	.05
Language	4.23	4.80	2.51	.02
Motor	4.61	5.13	2.55	.02
Creative	4.02	4.68	2.84	.01
Social	3.24	3.88	2.78	.01
Adult	4.16	4.73	2.20	.04

Table 4

Comparison of Agency-Sponsored and Independent Family Day Care Homes on the FDCRS

Scale	Agency-Sponsored	Independent	t	p<
Space & Furnishings	3.05	3.82	2.61	.01
Basic care	3.52	3.74	.79	n.s.
Language	3.88	4.18	.82	n.s.
Learning	3.49	3.87	1.39	n.s.
Social	3.68	3.91	1.13	n.s.
Adult	4.49	4.25	.88	n.s.

Table 5

Comparison of Family Day Care Homes and Day Care Centers Utilizing the Fiene & Melnick (1989) and Goelman & Pence (1987) Studies

	Fiene & Melnick Study		Goelman & Pence Study	
Scale	FDC	DCC	FDC	DCC
Space	3.50	4.23	3.55	4.80
Basic care	3.65	4.54	3.24	4.80
Language	4.06	4.43	3.36	4.40
Learning	3.71	4.54	3.57	4.80
Social	3.81	3.46	3.02	4.31
Adult	4.35	4.36	4.03	4.00

Table 6

Comparison of Child Development Program Evaluation Scale Data and Early Childhood Environment Rating Scale Data

	ECERS	CDPE	
Low Quality	132	26	Low Compliance
High Quality	165	85	Substantial Compliance
Medium Quality	144	100	Full Compliance

Table 7

Comparison of Early Childhood Environment Rating Scale Data for the Pennsylvania Department of Public Welfare's Four Regional Day Care Offices

Scale	Western	Northeast	Southeast/Central	F	p<
Space	4.05	4.60	3.59	7.31	.01
Basic care	4.28	4.55	3.93	3.25	.04
Language	4.40	4.78	4.01	3.50	.03
Learning	4.31	4.54	3.88	4.12	.02
Social	3.71	3.89	3.42	2.59	n.s.
Adult	4.49	4.65	4.13	2.39	n.s.

Table 8

Comparison of Urban, Suburban, and Rural Day Care Programs on the ECERS and FDCRS

Scale	Urban	Suburban	Rural	F	p<
Space	3.62	4.16	4.45	5.24	.01
Basic care	4.00	4.25	5.87	5.32	.01
Language	4.05	4.39	5.44	5.15	.01
Learning	4.00	4.25	4.91	3.06	.05
Social	3.49	3.62	4.50	4.46	.01
Adult	4.24	4.42	4.79	1.08	n.s.